

**Paper for Consideration by HSSC 11****FR comments to HSSC11-5.4D**

<b>Submitted by:</b>	France (Shom)
<b>Executive Summary:</b>	France supports the initiative to work and share experience on the automation of paper chart production based on content of ENC
<b>Related Documents:</b>	HSSC11-05.4D, HSSC 11-04.2A

**Introduction / Background**

The initial draft of the IHO strategic plan for 2021-2026 identifies the following strategic target “Deliver standards for data formats and product specifications including accompanying transition and implementation support” associated to the following performance indicator “Complete and implement a refurbished standardisation of paper charts as “print on demand” based on content of electronic nautical charts”.

In paper HSSC 11-04.2A, it is proposed to HSSC 11 to consider the list of targets and performance indicators, for analysing the possibility of their implementation in the HSSC Work Programme when relevant.

The related paper HSSC11-05.4D recommends to task NCWG to develop and test automated paper chart process from ENC databases and to create adapted specifications to support automation in order to gain flexibility and invest in S-100 products for the future.

**Analysis/Discussion**

Surely, production efficiency is an objective that any HO pursues. One of the keys is obviously to strengthen production automation of the paper chart (based on the vector content of ENC).

However, France would like to make the following comments:

- paper chart is made with the aim of making a synthetic and easily readable view of the information. The result of an automate process should meet this requirement, which currently requires the major part of human intervention;
- leisure boating is developed in France and the use of paper charts, even if it declines from year to year, remains at a level that we cannot disregard. That's why Shom is not ready to consider the paper chart as a product dedicated for planning and ultimate backup only in the short term;
- as the situations and technical tools differ from one HO to another, the NCWG's ability to specify and test "useful" solutions is questionable. Technological solutions on how to achieve the target defined in S-4 should not be set by NCWG. Considering technologies and HO practices, an analysis of the standard, even if it does not seem to us to be the main constraint of automation, may require adapting it.

**Recommendations**

An objective for the NCWG could be to develop a work programme dedicated to the future of paper chart, with a great implication of voluntary HOs including state of art, knowledge sharing and adaptation of the S-4, if relevant, taking into account the various technical solutions.

**Action Required of HSSC**

The HSSC is invited to:

- a. note this paper
- b. instruct NCWG as appropriate